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TOP SECRET

GROUP 1
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TCS-8420/70
7 August 1970

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MEMORANDUM FOR: Chief, Technical Services Group, NPIC

ATTENTION : Chief, PPS/TSG

SUBJECT : RED Monthly Report on Significant Events
(July 1970)

A. Significant Items of Interest for July 1970:

1. Automatic Stereo Scanner [REDACTED] has completed an inventory of all items associated with the Scanner and has prepared the instrument for shipment to [REDACTED]. This shipment should occur during the first part of August. Upon receipt, [REDACTED] will begin its reassembly with [REDACTED] assistance. The concurrent [REDACTED] contract, "Utility of Stereo Scanning," was initiated during July.

2. Automatic Target Indexing Device - [REDACTED] The system is in the final assembly stage and the project is on schedule. The planned shipment date of 11 September is still valid. The device will be assigned to PSG/R&RD for operational evaluation of automatic cloud indexing. It will be placed in Room 2N617 for both T&E and for the operational evaluation. All the necessary preparation for the device's installation in NPIC are currently underway.

3. Radar Parameters Study - [REDACTED] This study, being performed for [REDACTED] by a joint effort of NPIC/IEG and [REDACTED] has been initiated. Test materials and procedures are now being formulated, and actual PI testing should begin in August. This is a four-month project and it is on schedule.

4. Improved Rear Projection Screens - [REDACTED] The final report has been received along with small samples of lenticular screens which demonstrate increased performance over conventional screens. A proposal has also been received for a follow-on effort to eliminate undesirable color and to fabricate large (30" x 30") screens which would be compatible with the Scan & Search PI Station (now being designed by [REDACTED]). This proposal is under evaluation.

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5. Wide-Field High Power Anamorphic Stereoviewer - [REDACTED] After a long period of "stop work" on this project (due to lengthy contractual negotiations), work has started on the fabrication phase. This phase has been subdivided into three measurable milestones--each of which will be reviewed and evaluated before proceeding to the subsequent milestone. The project is on schedule.

6. Automatic Stereogram Feasibility Study - [REDACTED] The final report on the feasibility of the optics has been received and is being evaluated. The advisability of continuing this project will be determined in the near future.

7. Color Analyzer. [REDACTED] A&B/RED, conferred with both [REDACTED] and PSG/PD to finalize requirements for a color analyzer. A proposal is expected from [REDACTED] shortly.

8. Proposals Received.

a. A draft proposal has been received from [REDACTED] for the FY-71 Color Technology Implementation Program. This is being evaluated.

b. The proposal for FY-71 continuation of the [REDACTED] Grant in Photoscience was received, evaluated, and judged acceptable.

9. Reports Received.

a. Final reports covering the Color [REDACTED] for SO-242 and the Analytical Density Matrix for SO-360 were received from [REDACTED] under the T&M contract, and they are currently being reviewed.

b. [REDACTED] reported results of a broad-brush analysis of the oil that turned green in light tables. The contamination was attributed to copper and nickel.

10. Chemical Image Manipulation. Halos were first obtained with operational imagery using [REDACTED] processing on 2430 film. This achievement remains to be refined and evaluated as a useful technique for chemically manipulating images.

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- 25X1A 11. [REDACTED] 1540 Split-Format Light Table. The [REDACTED] 1540 split-format light table prototype was received. TEB/ESD has evaluated the corrections made on the instrument and will produce an addendum report on the results of their evaluation. 25X1A
- 25X1A 12. Chip Implementation Study. A final technical report covering Phase I of the Chip Implementation Study Program was submitted to RED by [REDACTED]. This report has been disseminated throughout the Center for information and evaluation.
13. IEG Training Package. The [REDACTED] developed a training package on SA-3 site recognition pilot--tested in IEG; other packages on naval and electronics targets also given preliminary evaluation. 25X1A
14. Contracts Signed.
- 25X1A a. Contract with [REDACTED] Information Systems for a Step & Repeat Contact Printer Design Study on 26 June 1970; and
- 25X1A b. Contract for fabrication of the prototype Scan & Search PI Station with [REDACTED] on 30 June 1970.
15. Training.
- 25X1A a. [REDACTED] attended the course entitled Principles of Color Technology given at [REDACTED]. Information obtained from this course will result in improvements in our capability for measuring and specifying and establishing tolerances for color processes. 25X1A
- 25X1A b. [REDACTED] attended the R&D Management Course given in New York by American Management Association.
- 25X1A c. [REDACTED] attended a demonstration of tape transport systems and on-line printers put on by [REDACTED] on 29 July 1970. 25X1A
16. Briefings.
- 25X1D a. RSB/RED, with the assistance of APSD, provided NPIC with briefings [REDACTED]. A total of 15 briefings over a three-day period were given. Private briefings were conducted on this system during the reporting period to requesting personnel.

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16. Briefings. (cont.)

- b. A series of briefings on Dry Silver Materials and Equipment Developments were given by RED and [REDACTED] personnel to the Group Chiefs, followed by an RED briefing of [REDACTED] on the FY-71 dry silver follow-on proposal.
- c. The Executive Director, NPIC, and Group and Division Chiefs, were briefed on the proposed FY-71 [REDACTED] Imagery Interpretation Research Program [REDACTED]

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B. Anticipated Items of Interest for August 1970.

None.

[REDACTED]
Deputy Chief
Research & Engineering Division,
TSG/NPIC

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Distribution:

Orig. & 5 - TSG
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